

```

1 msdsgsqlgs mgsltmksql qitvisaklk enknwfgps pyvevtvdgq skktekcnnnt
61 nspkwkqplt vivtpvsklh frvwshqtlk sdvllgtaal diyetlksnn mkleevvvtl
121 qlggdkepte tigdlsicld glqlesevvnt ngettcsesta sqnddgsrsk detrvstngs
181 ddpedagage nrrvsgnnspl slsnggfkps rpprpsrppp ptprrpasvn gspstnsdsd
241 gsstgslppt ntntntsega tsqliiplti sggsgprpln pvtqaplpvg weqrvdqhgr
301 vyyvdhvekr ttwdrepepl pgwerrvdmn griyyvdhft rtttwqrptl esvrnyeqwg
361 lqrsqllgga qqfnqrifiy nqdlfatsqs kefdplgplp pgwekrtdsn grvyfvnht
421 ritqwedprs qqqlnekplp egwemrftvd gipyfvdhnr rtttyidprt gksaldngpq
481 iayvrdfkak vqyfrfwcqq lampqhikit vtrktlfeds fqqimsfspq dlrrrlwvif
541 pgeegldygg varewfflls hevlnpmycl feyagkdnyl lqinpasyin pdhlkyfrfi
601 grfiamalfh gkfidsfsl pfykrilnkpg vglkdlesid pefynsliwv kenniecdl
661 emyfsvdkei lgeikshdlk pnggnilvte enkeeyirmv aewrlsrgve eqtqaffegf
721 neilpqgylq yfdakelevl lcgmqeidln dwqrhaiy rh yartskqimw fwqfvkeidn
781 ekrmrllqfv tgtcrpvgg fadlmgsngp qkfciekv gkenwlrshc fnrldlppyk
841 syeqlkekll faieetegfg qe (SEQ ID NO:1)

```

FIG. 1A

```

1 mgsltmksql qitvisaklk enknwfgps pyvevtvdgq skktekcnnnt nspkwkqplt
61 vivtptsklc frvwshqtlk sdvllgtagl diyetlksnn mkleevvmtl qlvgdkepte
121 tmgdlsvcld glqveaevvt ngetscsest tqnddgcrrr ddtvstngs edpevaasge
181 nkrangnnspl slsnggfkps rpprpsrppp ptprrpasvn gspstnsdsd gsstgslppt
241 ntnvntstse gatsgliipl tisggsgprp lntvsqaplp pgweqrvdqh grvyvvdhve
301 krttwdrpep lppgwerrvd nmgriiyvdh ftrtttwqrp tlesvrnyeq wqlqrsqllg
361 amqqfnqrifi ygnqdlfats qnkefdplgp lppgwekrtd sngrvyfvnh ntritqwedp
421 rsqqqlnekp lpegwemrft vdgipyfvdh nrrattyidp rtgksaldng pqiayvrdfk
481 akvqyfrfwc qqlampqhik itvtrktlfe dsfqqimsfs pqdlrrrlwv ifpgeegldy
541 ggwarewffl lshevlnpmy clfeiyagkdn yclqinpasy inpdhlkyfr figrfiamal
601 fhgkfidsf slpfykriln kpvgldles idpefynsli wvkennieec glemyfsvdk
661 eilgeikshd lkpnggnilv teenkeeyir mvaewrlsrg veeqtqaffe gneilpqgy
721 lqyfdakele vllcgmqeid lndwqrhaiy rhytrtskqi mwfwqfvkei dnekrmrllq
781 fvtgtcrpvp ggfadlmgsn gpqkfciekv gkenwlrshc tcfnrldlpp yksyeqlkek
841 llfaieeteg fgge (SEQ ID NO:2)

```

FIG. 1B

```

1 matcavevfg lledeensri vrvrviagig lakkdilgas dpyvrvtlyd pmngvltsvq
61 tktikkslnp kwneeilfrv hpqqhrlife vfdenrltrd dflgqvdpvl yplptenprl
121 erpytfkdfv lhrshksrv kgyrlrkmtly lpktsgsedd naeqaeelep gwvvldqpda
181 achlqqqqep splppgweer qdilgrtyyv nhesrrtqwk rptpqdnlt aengniqlqa
241 graffttrrqi seetesvdnr essenweiir edeatmysnq afpspppsn ldvpthlaee
301 lnarltifgn savsqpasss nhssrrgslyq aytfeeptl pvllptssgl ppgweekqde
361 rgrsyvvdhn srtttwtktpt vqatvetsql tssqssagpq sqastdsdgq qvtqpseieq
421 gflpkgwevr hapngrpffi dhntktttwe dprlkipahl rgktsldtsn dlglpppgwe
481 erthtdgrif yinhnikrtg wedprlenva itgpavpyser dykrkyeffr rklkkqndip
541 nkfemklrra tvledsyrrri mgvkradflk arlwiefdge kgldyggvar ewffliskem
601 fnpyyglfey satdnytlqi npnsglcned hlsyfkfigr vagmavyhgk lldgffirpf
661 ykmmllhkpit lhdmesvdse yynslrwile ndpteldlrf iideelfggt hqhelknggs
721 eivvtknkk eyiylviqwr fvnriqkqma afkegffeli pqdlikifde nelellmcgl
781 gdvdvndwre htikyngysa nhqviqfwk avlmmmdsekr irllqfvtgt srvpnmngfae
841 lygsngpqs fveqwgtpk lprahtcfnr ldlppyesfe elwdklqmai entqgfdgvd

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(SEQ ID NO:3)

FIG. 2A

```

1 msgiltsvqt ktikkslnpk wneeilfrvl pqrhrilfev fdenrltrdd flgqvdpvply
61 plptenprme rpytfkdfvl hprshksrvk gylrlkmtyl pkngsedena dqaeelepgw
121 vvldqpdaat hlphpppeps lppgweeqd vlgrtyyvnv esrrtqwkrp spdddltded
181 nddmqlqaqr afttrrqise dvdgpdnres penweivred enteysggav qspgsghidv
241 qthlaeefnt rlavcgnpat sqpvtssnhs srggslqtc i feeqptlpvl lptssglppg
301 weekqddrgr syvvdhnskt ttwskptmqd dprskipahl rgktdsndlg plppgweert
361 htdgrvffin hnikktqwed prlqnvaigt pavpysrddy rkyeffrrkl kkqtdipnkf
421 emklrranil edsyrrimgv kradllkarl wiefdgekgl dyggvarewf fliskemfnp
481 yyglfeysat dnytlqinpn sglcnedhls yfkfigrvag mavyhgklld gffirpfykm
541 mlqklitlhd mesvdseyys slrwilendp teldlrfiid eelfgqthqh elktggseiv
601 vtnknkkeyi ylviqwrfrv riqkqmaafk egffelpqd likifdenel ellmcglgdv
661 dvndwrehtk ykngysmmhq vihwfwkavw mmdsekrirl lqfvtgtsrv pmngfaelyg
721 sngpqsftve qwgtpdklpr ahtcfprldl ppyesfdelw dklqmaient qgfdgvd

```

(SEQ ID NO:4)

FIG. 2B

```

1 magnvkkssg aggggtsgsgs gsggliglmk dafqphhhhh hhlsphppgt vdkkmvekcw
61 klmdkvvrlic qnpklalkns ppyildlpld tyghlrltils ryegkmetlg eneyfrvfme
121 nlmkktkqti slfkegkerm yeensqprn ltklslifsh mlaelkgifp sglfggdtdfr
181 itkadaaefw rkafgektiv pwksfrqalh evhpiissgle amalkstidl tcndyisvfe
241 fdiftrlfqp wssllrnwns lavthpgyma fltydevkar lqkfihkpgs yifrlsctrl
301 gqwaigyvta dgnilqtiph nkplfqalid gfreghfylv dgrnqnpdlt glceptpqdh
361 ikvtgeqyel ycemgstfql ckicaendkd vkiepcghlm ctscltswqe segggcpfcr
421 ceikgtepiv vdpfdprgsg slirqgaega pspnyddddd eraddtlfmm kelagakver
481 ppspfsmapi aslppvpprl dlppqrvpvp ssasalgtas kaasgslhkd kplvpvptlr
541 dlppppppdr pysvgaesrp qrrplpctpg dcpssrdklpp vpssrlgdsw lprpikvpv
601 sapsssdpwt grelnrhlsl pflslpsqmepr rpdvprlgst flsldtsmsmn ssplvgpecd
661 hpkikpsssa naiyslaarp lpvpklppge qcegeedtey mtpssrplrp ldtssqsrac
721 dcdqgidst yeamyniqsq apsitesstf gegnlaaaah ntgpeesene dgydvkppv
781 vpavlarrtl sdisnasssf gwlsldgdpt tnvtegsqvp erppkpfpr inderkagsc
841 qggsgpaasa ataspllsse ienlmsqgys yqdiqkalvi aqnniemakn ilrefvsiss
901 pahvat (SEQ ID NO:5)

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FIG. 3A

```

1 magnvkkssg aggggsgsgs aggliglmkd afqphhhhhh lsphppctvd kkmvekcwkl
61 mdkvvrlicqn pnvalknspp yildlpldty qhlrtvlslry egkmetlgen eyfrvfmnl
121 mktktktisl fkegkermys ensqprnlt klslifshml aelkgifpsg lfqgdtdfrit
181 kadaaefwrk afgektivpw ksfrqalhev hpissgleam alkstidltc ndyisvfeff
241 iftrlfqpws slrnwnsla vthpgymafl tydevkarlq kfihkpgsyi frlctrlgq
301 waigyvtadg nilqtiphmk plfqalidgf regfylvpdg rnqnpdltgl ceptpqdhik
361 vtqicaendk dvkiepcghl mctscitswq esegggcpfc rceikgtepi vdpfdprgs
421 gsllrqgaeg apspnyddddd deraddslfm mkelagakve rpsspfsmapi qaslpvppr
481 ldllqrapv pastsvlgta skaasgslhk dkplpipptl rdlppppppd rpysvgaetr
541 pqrplpctp gdcpsrdklp pvpssrpgds wlartipkvp vatpnpdpw ngreltnrsh
601 lpflslpsqme pradvprlgs tflsldtsmtm nsspvagpes ehpkikpsss anaiyslaar
661 plpmpklppg eggeseedte ymtptsrpvg vqkpepkrpl eatqssracd cdqgidstcy
721 eamyniqsqa lsvaensasg egnlatahts tgpeesened dgydvkppv pavlarrtlsl
781 disnasssf wlsldgdptn fnegsqvper ppkpfprin serkassyqq gggatanpva
841 tapspllsse ierlmsqgys yqdiqkalvi ahnniemakn ilrefvsiss pahvat
(SEQ ID NO:6)

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FIG. 3B

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1 mansmngnrp ggrggnprkg rilgiidaig davgppkqaa adrtrvektw klmdkvvrle
61 qnpklqlkns ppyildilpd tyqhlrlils kyddnqklaq lsenevfkiy idslmkkskr
121 airlfkegke rmyeeqsqdr rnltklslif shmlaeikai fpngqfqqdn fritkadaae
181 fwrkffgdkt ivpwkvfrqc lhevhqiss leamalksti dltnndyisv fefdiftrlf
241 qpwwsilrnw nflavthpgy maflytydevk arlqkystkp gsyifrlsct rlgqwaigyv
301 tgdgnilqti phnkplfqal idgsregfyl ypdgrsynpd ltglceptph dhikvtgeqy
361 elycemgstf qlckicaend kdvkiepcgh lmctscitaw qesdgggcpf crceikgtep
421 iivdpfdprd egsrcsiid pfgmpmldld ddddreestm mnrlanvrkc tdrqnsptvs
481 pgssplaqrr kqpdplqip hlslppvppr ldliqkgivr spcgsptgsp ksspcmvrkq
541 dkplpapppp lrdppppppe rpppippdnr lsrihhves vpsrdppmpl eawcprdvfg
601 tnqlvgcrl lgegspkpgit assnvgrhs rvgsdpvlmr khrrhdlple gakvfnghl
661 gseeydvppr lppppvtll lpsikctgpl anlsektrd pveeddeyk ipsshpvsln
721 sqpshchnvk ppvrscdngh cmlngthgpa sekksnipdl siylkgdvfd sasdpvplpp
781 arpptrdnkp hgsslnrtps dydllipplg edafdalpps lpppppparh sliehspppg
841 sssrpssgqd lfillpsdpfv dlasgqvplp parrlpgenv ktnrtsqdyd qlpscsdgsq
901 aparppkprp rrtapeihhr kphgpeaale nvdakiaklm gegyafeevk raleiaqnnv
961 evarsilref afpppvspri nl (SEQ ID NO:7)

```

FIG. 4A

```

1 mctscitawq esdgggcpfc rceikgtepi ivdpfdprde gsrcsiidp fsipmldldd
61 dddreestlmm nrlasvrkct drqnsptvsp gssplaqrrk qpdplqip lslppvpprl
121 dliqkgivrs pcgsptgspk sspcmvrkqd kplpapppppl rdppppperp ppippdnrls
181 rhfhghesvp srdqpmplea wcpdrdfgtn qvmgcrilgd gspkpgvtan sslngrharm
241 gseqvlmrkh rrhdlpsega kvfsnglat eeydvpprls ppppvttllp sikctgplan
301 clsektrdtv eddddeykip sshpvslnsq pshchnvkap vrscdnghci lngthgapse
361 mkksnipdlg iylkgedafd alppslpppp pparhslieh skppgsssrp ssgqdlfillp
421 sdppfdptsg qvplpparra agdsgkanra sqdydqlpss sdgsqaparp pkprprtap
481 eihhrkphgp eaalenvdak iaklmgegya feevkralei agnnvevars ilrefafppp
541 vsprlnl (SEQ ID NO:8)

```

FIG. 4B

1 malavapwgr qweearalgr avrmlqrlee qcvdprlsvs ppslrdllpr taqllrevah  
 61 srreaagggp gpggsgdfl liylanleak srqvaallpp rgrrsandel fragsrlrrq  
 121 laklaiifsh mhaelhalfp ggkycghmyq ltkapahtfw rescgarcvl pwaefesllg  
 181 tchpvepgct alalrttidl tcsghvsife fdvfrlfqp wptllknwql lavthpgyma  
 241 fltydevqer lqacrdkpgs yifrpctrl ggwaigyvss dgsilqtipa nkplsqvllle  
 301 gqkdgyfylv dgkthnpdlt elggaepqqr ihvseeqlql ywamdstfel ckicaesnk  
 361 vkiepcghll cscclaawqh sdsqtcpcfc ceikgweavs iyqfyggata edsgnssdq  
 421 grelelgqvp lsapplpprp dlpprkprna qpkvrllkgn sppaalgpqd papa

(SEQ ID NO:9)

FIG. 5A

1 maaaaaprgw qrgepralsr avkllqrlee qcrdprmvgt ppslrdllpr taqllgevak  
 61 arrearedpe gpggaddfla iylanlevkg rqvaellppr gkkdvnqdvf regsrfrrql  
 121 aklalifshm haelsalfpa gkycghlyql tkgsahifwr qncgvrcvlp waefqsllca  
 181 chpvepgptm qalrstldlt cnghvsvfef dvftrlfqpw ptllrnwql avnhpgymaf  
 241 ltydevqtrl qayrdkpgsy ifrpsctrlg qwaigyvssd gsilqtipln kpillqvllkg  
 301 qkdgiflfpd gkknnpdlte lcrvepyqri qvseeqllyl qamnstfqlc kicaerdkdv  
 361 riepcghllc scclsawqds dsqtcpcfc eikgreavsi cqaqerptev rtaadgsrdn  
 421 chgeaaeqkl gpvipsapsl lpedqfpqgp qdkgwltlap lalprlrppl plpkmasvllw  
 481 evtsrprare eatess (SEQ ID NO:10)

FIG. 5B

1 mppppgagvs crggcgfsrl lawcfillals pgapgsrgae avwtaylnvs wrvphtgvnr  
61 tvwelseeqv ygqdsplepv agvlvppdgp galnacnphnt nftvptvwgs tvqvswlali  
121 qrgggctfad kihlayerga sgavifnfpq trnevipmsh pgavdivaim ignlkgtkil  
181 qsiqrgiqvt mvievqkkhg pwnhysiff vsvsffiita atvgyfifys arrlrnaraq  
241 srkqrqlkad akkaigrlql rtlkqgdkei gpdgdscavc ielykpndlv riltcnhifh  
301 ktcvdpwlle hrtcpmckcd ilkalgievd vedgsvslqv pvsneisnsa ssheednrse  
361 tassgyasvq gtdeppleeh vqstneslql vnheansvav dviphvdnpt feedetpnqe  
421 tavreiks (SEQ ID NO:11)

FIG. 6A

1 mppppgigvy crggcgaaarl lawcfillals phapgsrgae avwtaylnvs wrvphtgvnr  
61 tvwelseeqv ygqdsplepv sgvlvppdgp galnacnphnt nftvptvwgs tvqvswlali  
121 qrgggctfad nihlaserga sgavifnfpq trnevipmsh pgagdivaim ignlkgtkil  
181 qsiqrgiqvt mvievqkkhg pwnhysiff vsvsffiita atvgyfifys arrlrnaraq  
241 srkqrqlkad akkaigklql rtlkqgdkei gpdgdscavc ielykpndlv riltcnhifh  
301 ktcvdpwlle hrtcpmckcd ilkalgievd vedgsvslqv pvsneasnta spheedsrse  
361 tassgyasvq gadeppleeh aqsanenlql vnheansvav dvvphvdnpt feedetpdqe  
421 aavreiks (SEQ ID NO:12)

FIG. 6B

5 1 magaaspcan gcgpgapsda evhlcrsle vgtvmtlfys kksqrperkt fqvkletqrq  
 61 twsrgadkie gaidireike irpgktsrdf dryqedpafr pdqshcfvil ygmefrlktl  
 121 slqatsedev nmwikgltwl medtlqatp lqierwlrkq fysvdrnred risakdlknm  
 181 lsqvnrvpn mrflrerltd leqrsdity ggfaqlrsl mysaqktmdl pflakeatra  
 241 gerpelcrvs lpefqqlld yggelwavr lqvqefmlsf lrdplreiee pyffldefvt  
 301 flfskensvw nsqldavcpd tmnnplshyw isshtntylt gdqfssessl eayarclrmg  
 361 crcieldc wd gpdgmpviyh ghtlttkikf sdvlhtikeh afvaseypvi lsiedhcsia  
 421 qqrmaqyfk kvlgdtlltk pveisadglp spnqlkrkil ikhkklaegs ayeevptsmm  
 481 ysendisnsi kngilyledp vnhewyphyf vltsskiyys eetssdqgne deeeepkevss  
 541 stelhsnekw fhgklgagrdr ghiaerllt eycietgapd gsflvreset fvgdytlfsw  
 601 rngkvqhcri hsrqdagtpk ffltdnlvfd slydlithyq qvplrcnefe mrlsepvpqt  
 661 naheskewyh asltraqaeh mlmrprdg flvrkrnepn syaisfraeg kikhcrvqqe  
 721 gqtmngnse fdlvdlisy yekhpkyrkml klrypineea lekigtaepd ygalyegrn  
 781 gfyveanpmp tfkcavkalf dykaqredel tfiksaiqn vekqeggwrr gdyggkkqlw  
 841 fpsnyveemv npvalepere hldensplgd llrgvldvpa cqiairpegk nnrlfvfsis  
 901 masvawhsl dvaadsqeelq dwvkkireva qtadarlteg kimerrkkia lelsvvyc  
 961 rpvpfdeeki gteracyrdm ssfpetkaek yvnkakgkkl lqynrlqlsr iypkgqrls  
 1021 snydplpmwi cgsqqlvalnf qtpdkpmqmn qalfmtgrhc gyvlpqstmr  
 deafdpfdks  
 1081 slrglepcai sievlgarhl pkngrgivcp fveievagae ydstkqktef  
 vvdnglnpvw  
 1141 pakpfhfqis npefaflrfv vyeedmfdsq nflaqatfpv kglktgyrav  
 plknnyseidl  
 1201 elaslikid ifpakqengd lsfsgtslr ergsdasgql fhgraregsf  
 esryqgpfed  
 1261 frisquehlad hfdsrerrap rrtrvngdnr 1 (SEQ ID NO:13)

FIG. 7A

1 mefrlktlsl qatsedevnm wikgltwlme dtlqaatplq ierwlrkqfy svdrnredri  
 61 sakdlknmls qvnrvpnmr flrerltdle qrsditygg faqlrslmy saqktmdlpf  
 121 letnalrtge rpehcqvsls efqqflleyq gelwavdrld vqefmlsfldr dplreieepy  
 181 ffdelvtfl fskensvwns qldavcpdtn nnplshywis sshntyltgd qfssesslea  
 241 yarclrmgcr cioldcwgdp dgmpviyhgh tlthkikfsd vlhtikehaf vaseypvils  
 301 iedhcsiaqg rnmaqhfkrv lgtlltkpv diaadglpsp nqlrrkilik hkklaegsay  
 361 eevptsvmys endisnsikn gilyledpvn hewyphyfvl tsskiyysee tssdqgnede  
 421 eepkeassst elhssekwhf gklgagrdr hiaerlltey cietgapdgs flvresetfv  
 481 gdytlfswrn gkvqhcrihs rqdagtpkff ltdnlvfdsl ydlithyqqv plrcnefemr  
 541 lsepvpqttna heskewyhas ltraqaehml mrvrprdgaf vlkrnepnsy aisfraegki  
 601 khcrvqgegq tvmlgnsefd slvdlisy ye khplyrkml rypineeale kigtaepdyg  
 661 alyegrnpgf yveanpmpkf kcavkalffy kaqredeltf tksaiqnve kqdgwwrgd  
 721 yggkkqlwfp snyveeminp avleperehl densplgdll rgvldvpacq iaairpegknn  
 781 rlfvfvfsimp svaqwsldva adsqeelqdw vkkirevaqt adarltegkm merrkkiale  
 841 lselvvyvcrp vpfdcekigt eracyrdms fpetkaekyv nkakgkklq ynrlqlsriy  
 901 pkgqrlsdasn ydplmwigc sqlvalnfqt pdkpmqmnqa lfmagghcgy vlpqstmrde  
 961 afdpfdkssl rglepvcici evlgarhlpk ngrgivcpfv eievagaeyd stkqktefvv  
 1021 dnglnpvwpa kpfhfqisnp efaflrfvvv eedmfdsqnf laqatfpvkg  
 lktgyravpl  
 1081 knnyseidl aslikidif pakengdlsp fsgislrera sdassqlfhv  
 raregsfear  
 1141 yqgpfedfri sqehladhfd srerraprtr rvngdnrl (SEQ ID NO:14)

FIG. 7B

1 mspflrigls nfdcgcscqsc qgeavnpypca vlvkeyvese ngqmyiqkqp tmyppwdstf  
 61 dahinkgrvm qiivkgknvd lisettvely slaercrknn gkteiwlelk pggrrlmnnar  
 121 yflemsdtkd mnefetegff alhqrrgaik qakvhhvkch eftatffpqp tfcsvghefv  
 181 wglmkqgyqc rqcnaaihhk cidkviakct gsainsretm fhkerfkidm phrfkvnyk  
 241 sptfcehcgt llwglarqgl kcdacgmnhv hrcqtkvanl cgingklmae alamiestqq  
 301 arclrdteqi fregpveigl pcsiknearp pclptpgkre pggiswespl devdkmchlp  
 361 epeInkerps lqiklkiedf ilhkmlgkgs fgkvflaefk ktnqffaika lkkdvvlmdd  
 421 dvectmvekr vlslawehpf lthmfctfqt kenlffvmey lnggdImyhi qschkfdlsr  
 481 atfyaaeiil glqflhskgi vyrdlkldni lldkdghiki adfgmckenm lgdaktntfc  
 541 gtpdyiapei llgqkynhsv dwwsfgvlly emligqspfh gqdeelfhs irmndpfpyp  
 601 wlekeakdll vklfvrepek rlgvrgdirq hplfreinwe elerkeidpp frpkvkspfd  
 661 csnfdkefln ekprlsfadr alinsmdqnm frnfsfmnp merlis (SEQ ID  
 NO:15)

FIG. 8A

1 mspflrigls nfdcgtcqc qgeavnpypca vlvkeyvese ngqmyiqkqp tmyppwdstf  
 61 dahinkgrvm qiivkgknvd lisettvely slaercrknn grteiwlelk pggrrlmnnar  
 121 yflemsdtkd mnefenegff alhqrrgaik qakvhhvkch eftatffpqp tfcsvghefv  
 181 wglmkqgyqc rqcnaaihhk cidkviakct gsainsretm fhkerfkidm phrfkvnyk  
 241 sptfcehcgt llwglarqgl kcdacgmnhv hrcqtkvanl cgingklmae alamiestqq  
 301 arslrdsehi fregpveigl pcstknetrp pcvptpgkre pggiswdspl dgsnksagpp  
 361 epevsmrrts lqlklkiddf ilhkmlgkgs fgkvflaefk rtnqffaika lkkdvvlmdd  
 421 dvectmvekr vlslawehpf lthmfctfqt kenlffvmey lnggdImyhi qschkfdlsr  
 481 atfyaaevil glqflhskgi vyrdlkldni lldrdghiki adfgmckenm lgdaktntfc  
 541 gtpdyiapei llgqkynhsv dwwsfgvlvy emligqspfh gqdeelfhs irmndpfpyp  
 601 wlereakdll vklfvrepek rlgvrgdirq hplfreinwe elerkeidpp frpkvkspyd  
 661 csnfdkefls ekprlsfadr alinsmdqnm fsnfsfinpg metlics (SEQ ID  
 NO:16)

FIG. 8B



```

1 mmaaeagsee ggpvtagagg ggaaagssay pavcrvkipa alpvaapyp glvetgvagt
61 lgggaalgse flgagsvaga lggagltggg taagvagaaa gvagaavagp sgdmaltklp
121 tsllaetlgp gggfplppp pylpplgagl gtvdegdsld gpeyeveeva iptlapptnq
181 wyhgkldrti aeerlrqagk sgsyliresd rrpqsfvlsf lsqmnvvnfh riiamcgdy
241 iggrrfssls dligyysvhs cllkgeklly pvappepved rrrrvailpy tkvpdtdeis
301 flkgdmfivh neledgwmwv tnlrtdeggl ivedlveevg reedp hegki wfhgkiskqe
361 aynllmtvgg vcsflvrpsd ntpgdyslyf rtneinqrk icptpnngfm mggryynsig
421 diidhyrkeq ivegyylkep vpmqdgqvl ndtvdgkeiy ntirrktda fyknivkkgy
481 llkkgkgkrw knlyfilegs daqliyfese kratkpgkli dlsvcsvyv hdsifgrpnc
541 fqivvqhfs ehyifyfage tpeqaedwmk glqafcnlrk sspgtsnkr1 rqvsslvhi
601 eeahklpvkh ftnpycniyl nsvqvaktha regqnpvwse efvddlppd inrfeitln
661 ktkkskdpdi lfmrcqlsrl qkghatdewf llsshiplkg iepgslrvra rysmekimpe
721 eeysefkeli lqkelhvvy lshvcgqdr1 llasillrif lhekleslll ctln dreism
781 edeattlfra tlastlmeq ymkatqtqv hhalkdsilk imeskqscel spsklekned
841 vntnlthlln ilselveki maseilpntl ryiygclqks vqhkwpntnt mrtrrvsgfv
901 flrlcpail nprmfniisd spspiaartl ilvaksqnl anlvefgake pymegvnpfi
961 ksnkhmimf ldelgnvpel pdttehsrtd lsrdaalhe icvahsdelr tlnsnergaqg
1021 hvlkklait ellqqkqngy tktndvr (SEQ ID NO:17)

```

FIG. 9A

```

1 mcgdyiggr rfsslsdlig yyshvscilk gekllypvap pepvedrrrv railpytkvp
61 dtdeisflkg dmfvhnele dgwmwvtnlr tdegglived lveevgreed phgkiwfhg
121 kiskqeynl lmtvgqvcsf lvrpsdntpg dyslyfrtne nigrfkicpt pnnqfmmggr
181 yynsigdiid hyrkegiveg yylkepvpmq dggqvlndtv dgkeiyntir rktkdafykn
241 ivkkgyllkk gkgkrwnly filegsdaql iyfesekrat kpgklidlsv csvyvvhds1
301 fgrpncfqiv vghfseehyi fyfagetpeq aedwmkgqla fcslrksspg tsnkrlrqvs
361 slvlhieeah klpvkhtnp ycnlylnsvq vaktharegq npvwseefvf ddlppdinrf
421 eitlsnktkk skdpdilmr cqlsrlqkgh atdewfllss hiplkgiepg slrvrarsm
481 ekimpeeeys efkelilqke lhvyalshv cgqdr1llas illkiflhek leslllctln
541 dreismedea ttlfrattla stlmeqymka tatqfvhhal kdsilkimes kqscelspsk
601 leknedvntn lahllsilse lvekifmase ilpntlryiy gclqksvqhk wptntmtrr
661 vvsqgvflrl icpailnprm fniisdspsp iaartltlva ksvqnlaln1 efgakepyme
721 gvnpfiksnk hrmimfldel gnvpe1pdt ehsrtdlsrd laalheicva hsdelrtln
781 ergvqghv1k kl1aitellq qkqngytktn dir (SEQ ID NO:18)

```

FIG. 9B

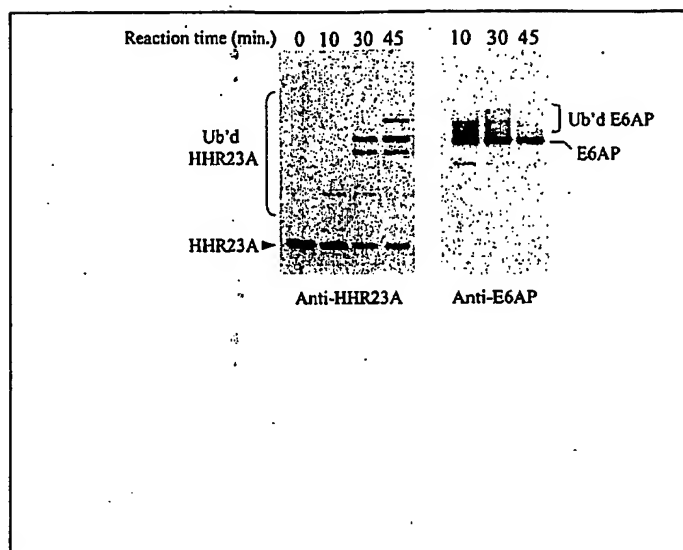


FIG. 10

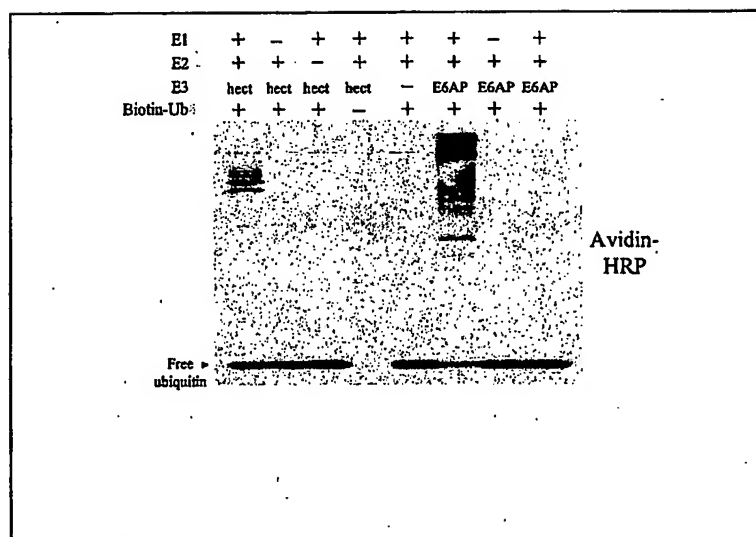


FIG. 11

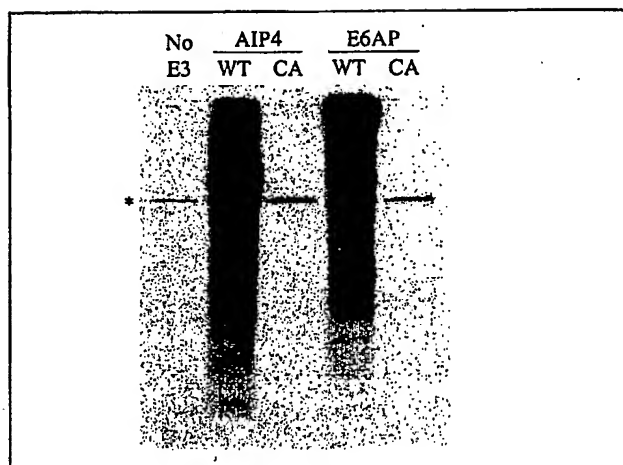


FIG. 12

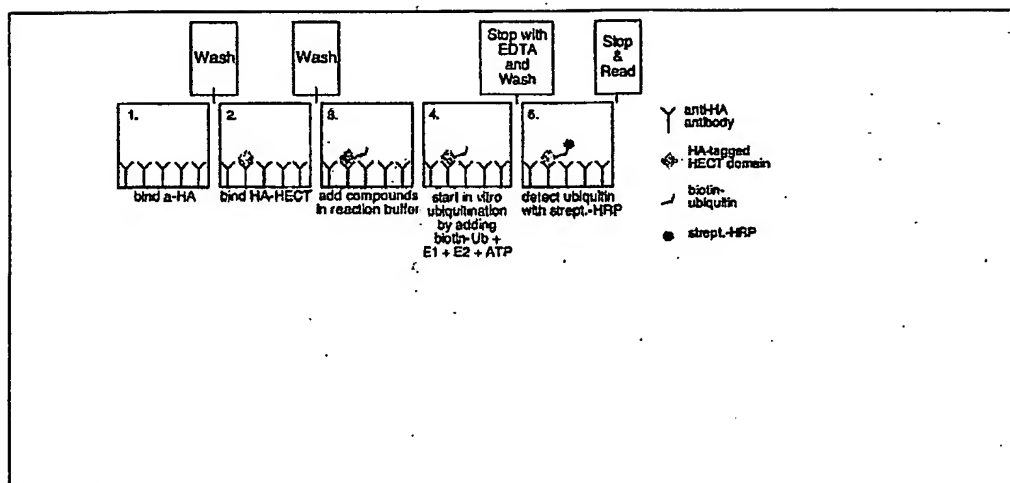


Fig. 13

Fig. 14A

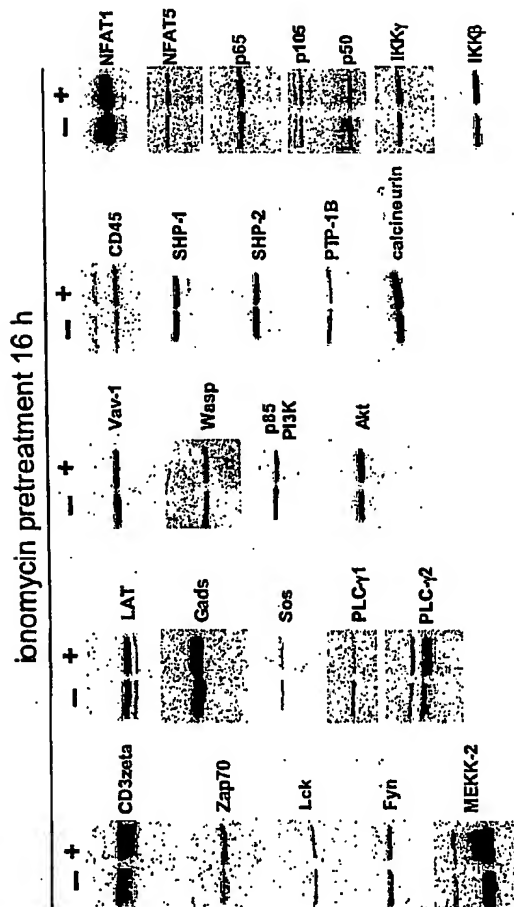


Fig. 15A

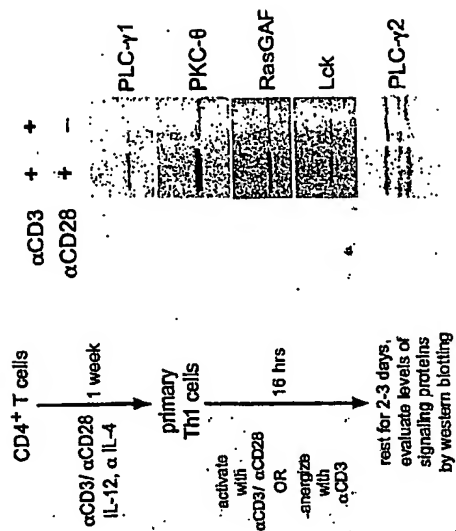


Fig. 14B

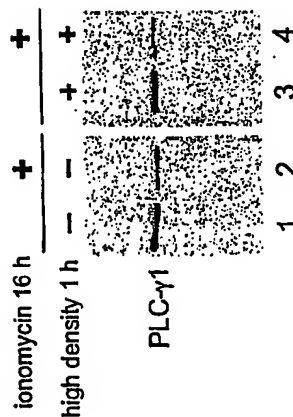


Fig. 14C

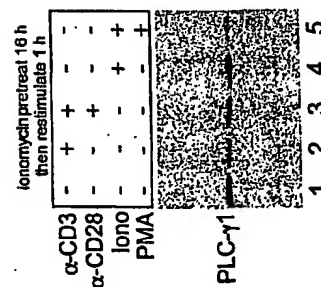


Fig. 14D

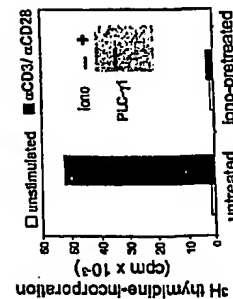


Fig. 15B

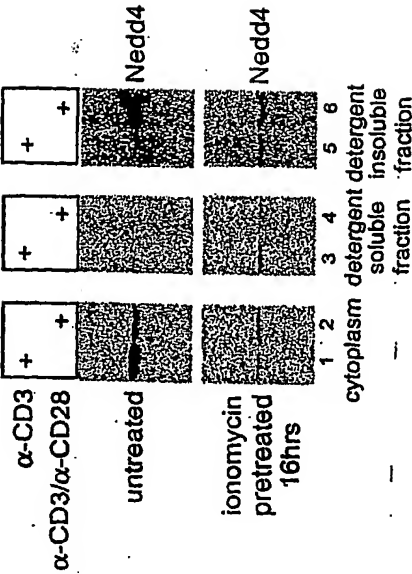


Fig. 16A

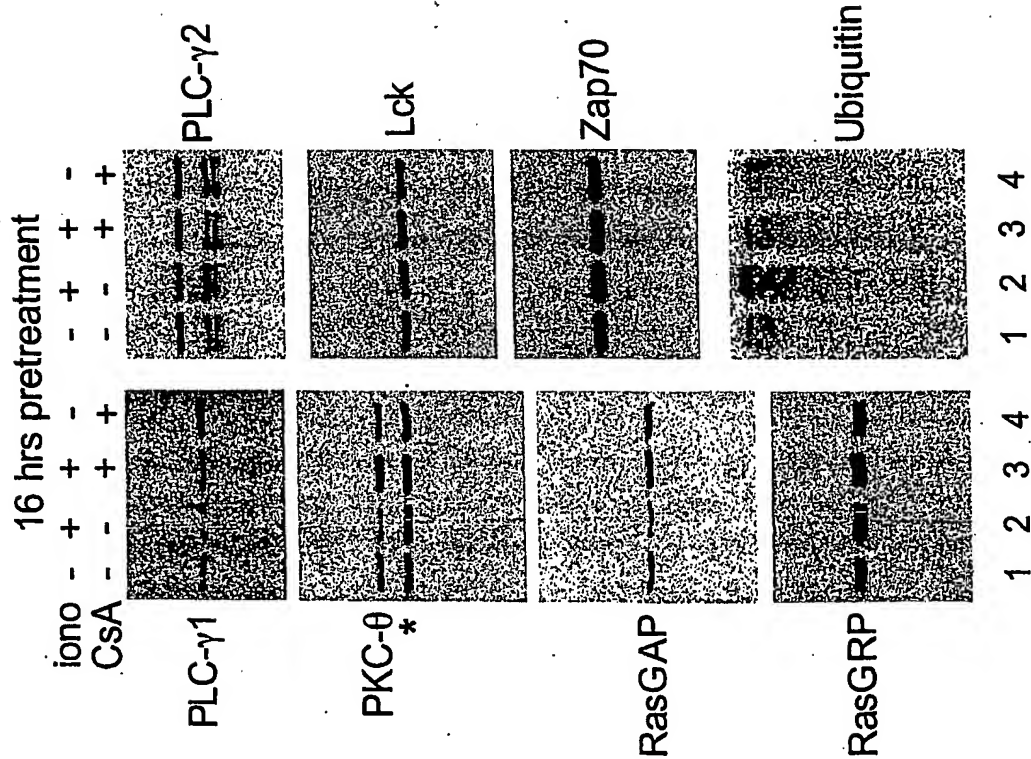


Fig. 21

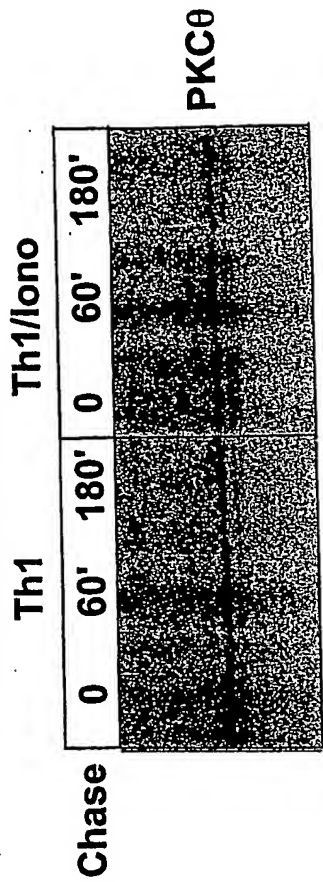


Fig. 14E

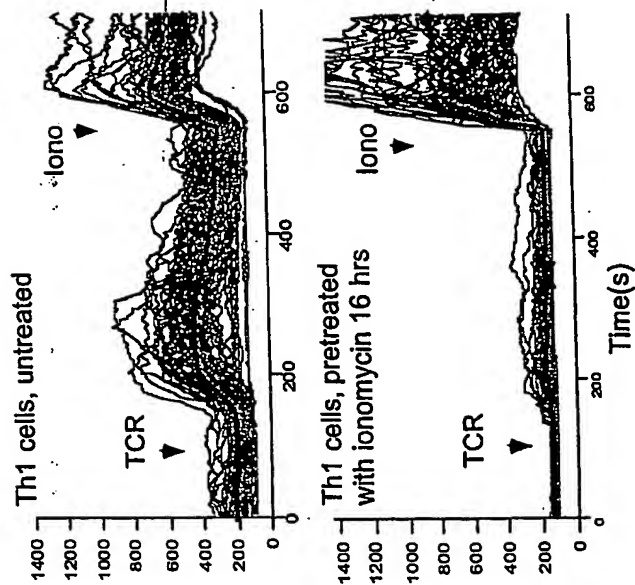




Fig. 16D

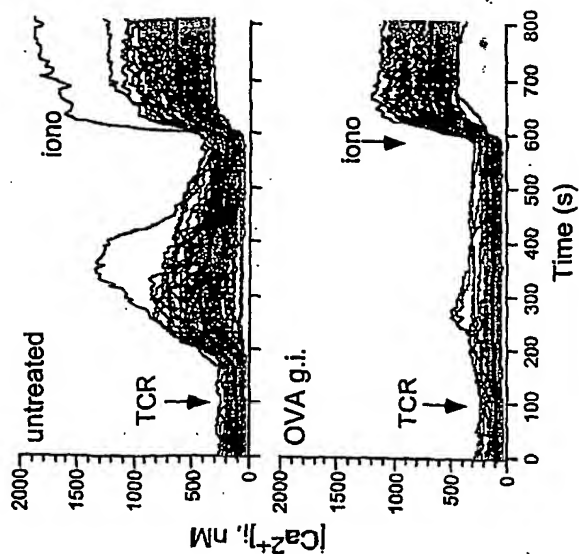


Fig. 16B

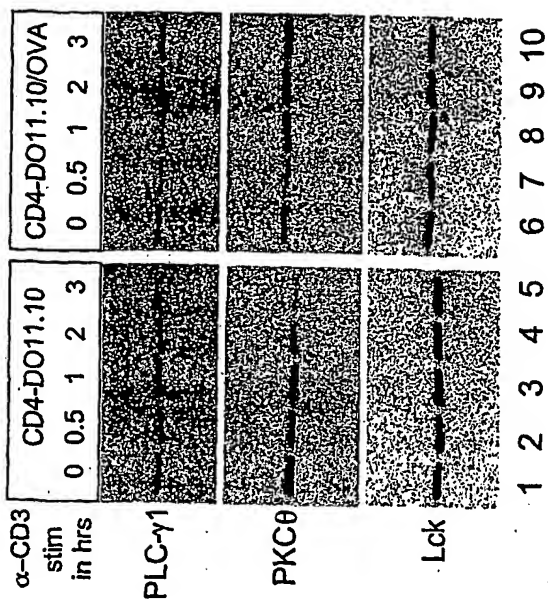
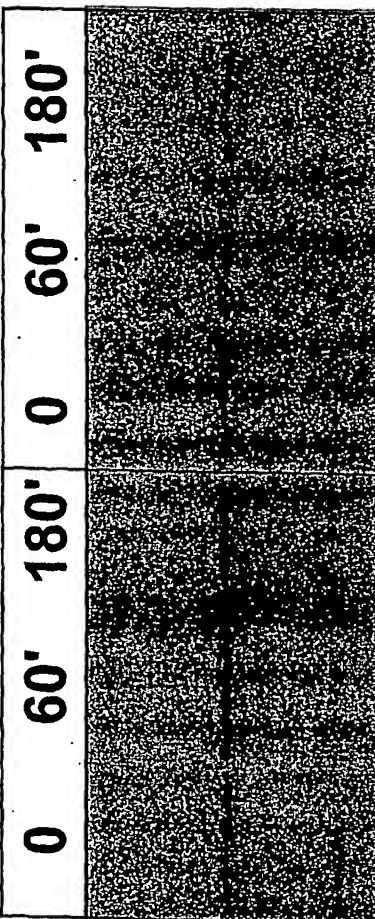


Fig. 16C

DO11.10 DO11.10/OVA

Chase



PKCθ

Fig. 17A

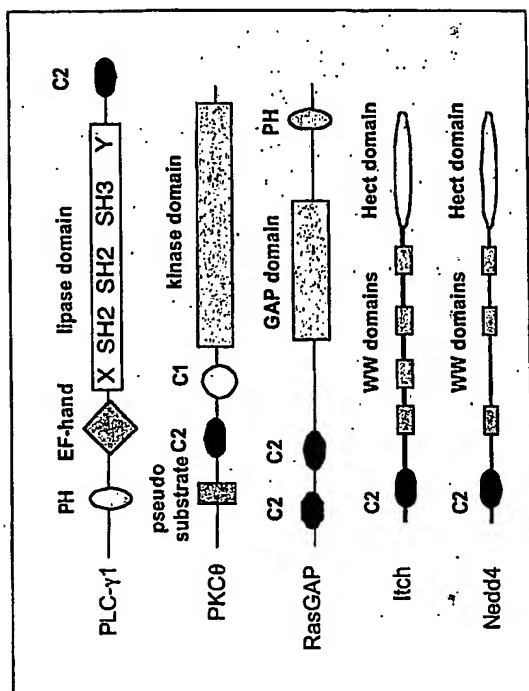


Fig. 15D

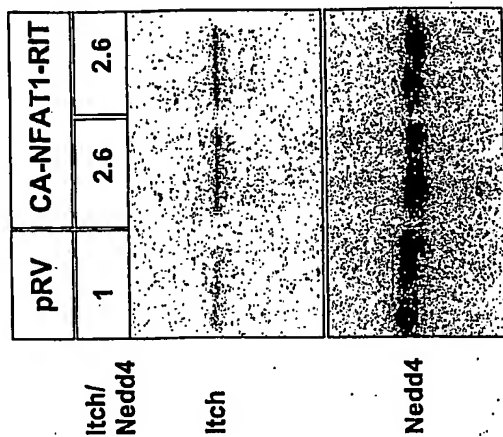


Fig. 15C

αCD3, μg 0.25 1 0.25 -  
αCD28, μg 2 - - -

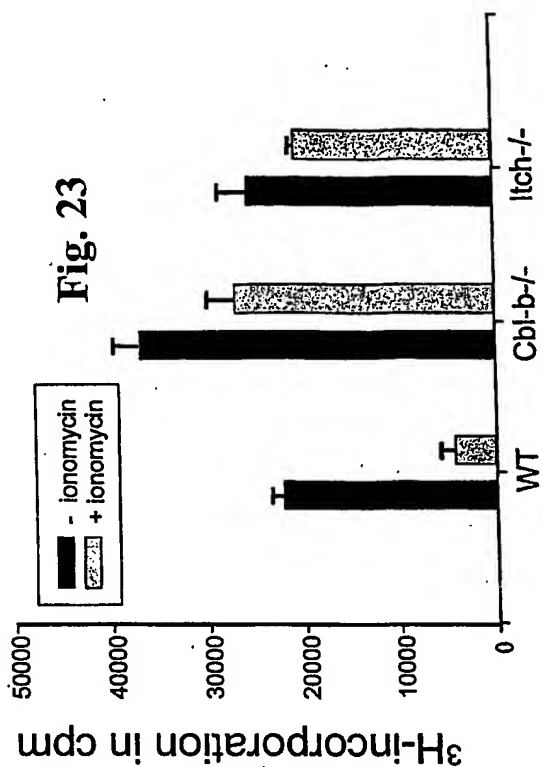


Fig. 23

Fig. 17B

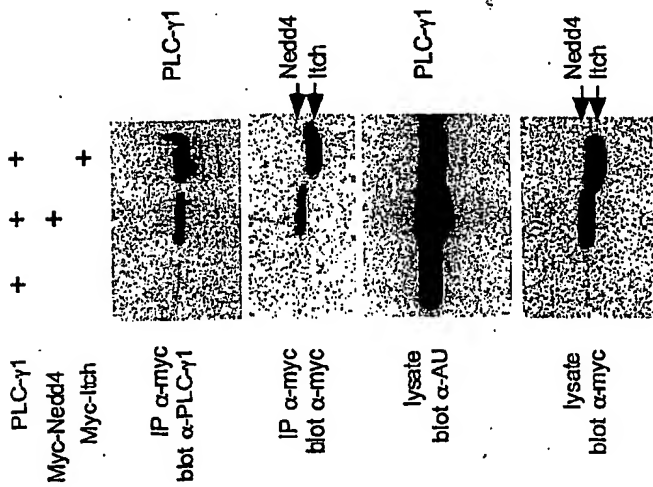


Fig. 17C

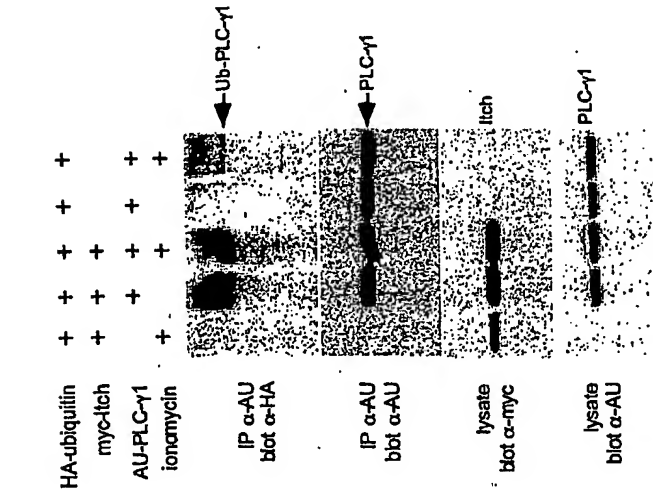


Fig. 17F

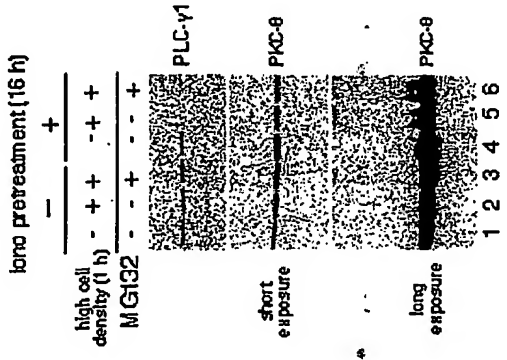


Fig. 17E

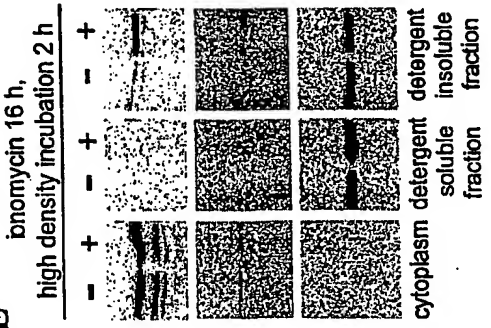


Fig. 17G

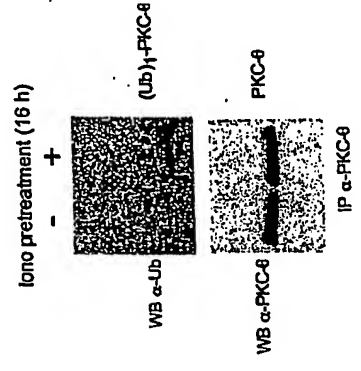


Fig. 17D

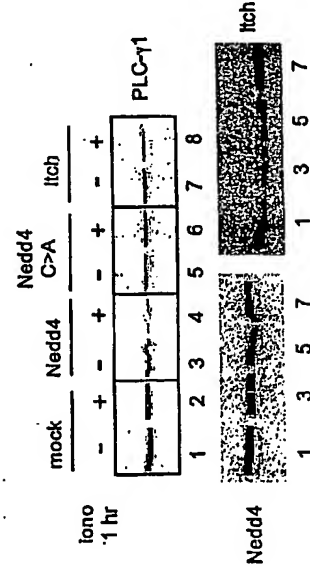


Fig. 18A

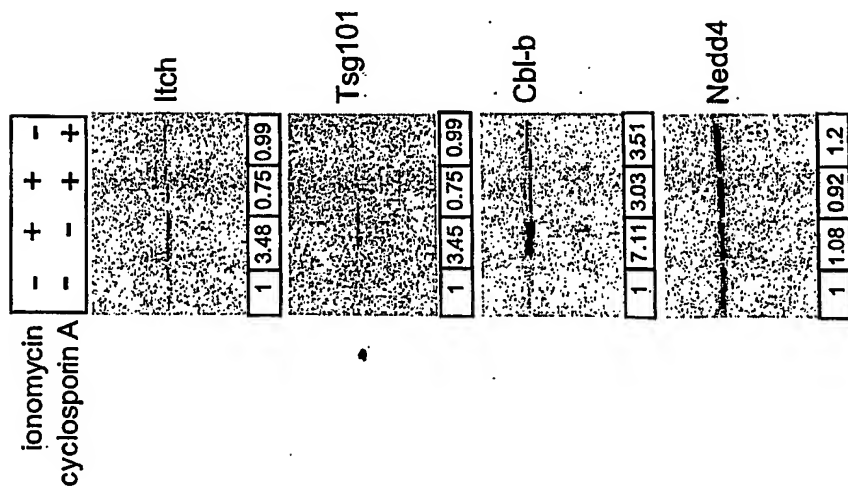


Fig. 18B

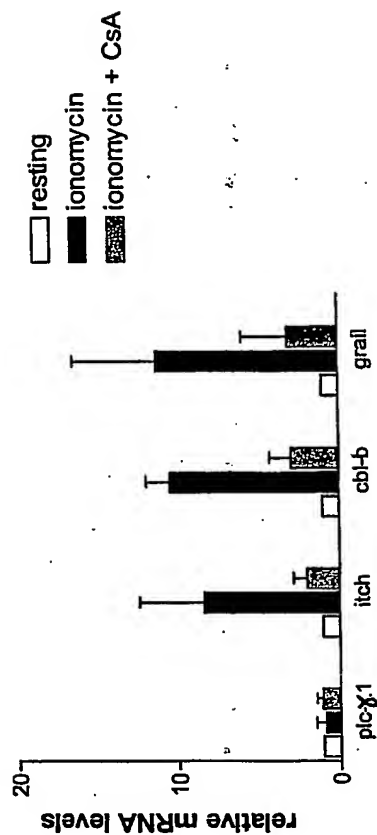


Fig. 19A

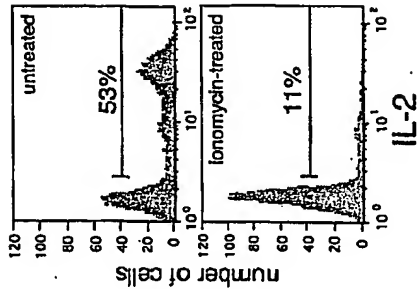


Fig. 19B

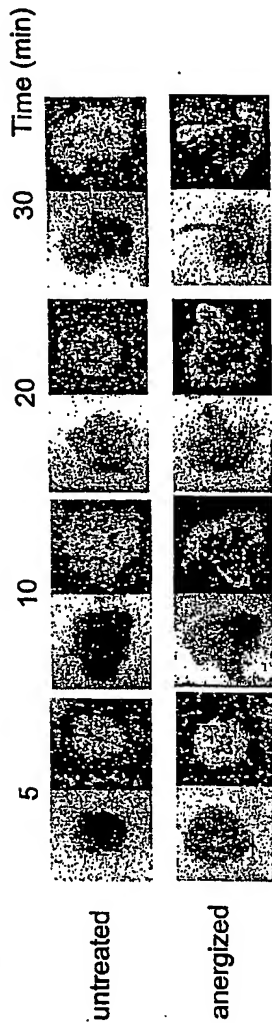


Fig. 19C

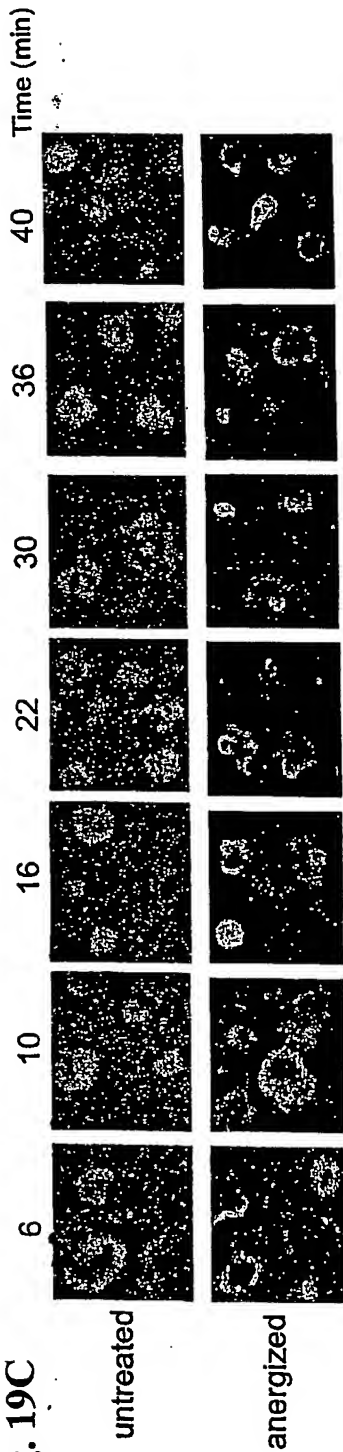
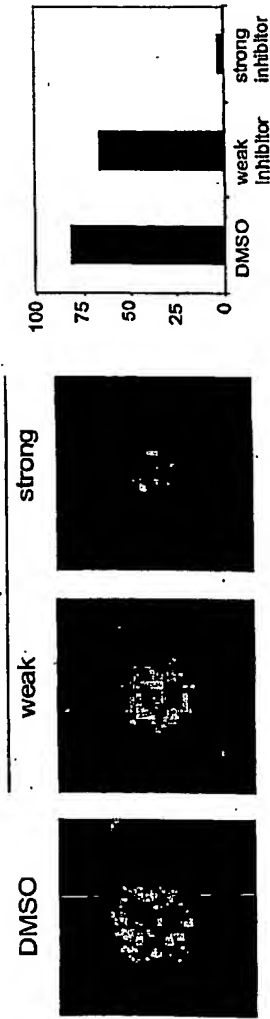


Fig. 22



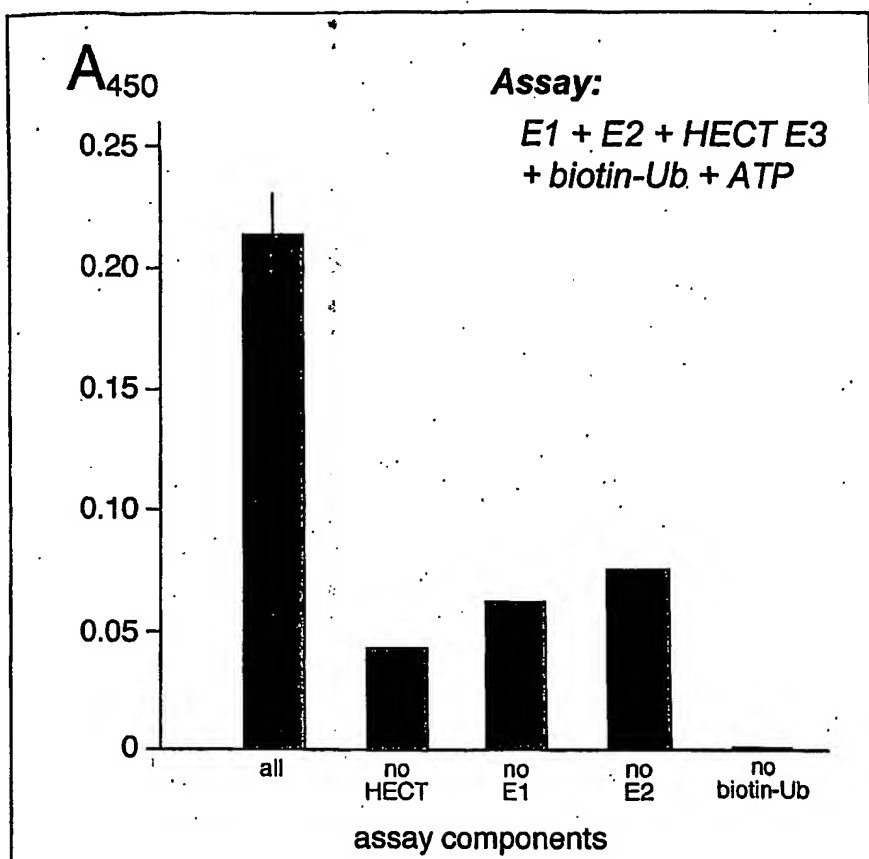
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61 vpyrgntyni piclwllldty pynppicfvk ptssmtiktg khvdangkiy lpylhewkhp  
121 qsdllgliqv mivvfgdepp vferpisasy ppyqatgppn tsympgmpgg ispypsgypp  
181 npsgypgcgy ppggypypatt ssqypsqqpv ttvgpsrdgt isedtirasl isavsdklrw  
241 rmkeemdraq aelnalkrte edlkkghqkl eemvtrldqe vaevdkniel lkkkdeels  
301 alekmenqse nndideviip taplykqiln lyaeenaied tifylgealr rgvidldvfl  
361 khvrllsrkq fqlralmqka rktaglsdly (SEQ ID NO:19)

Fig. 20A

1 mavesesqlkk mmskykyrdl tvrqtvñvia mykdlkpuld syvfndgssr elvnlgtip  
61 vryrgniyni piclwllldty pynppicfvk ptssmtiktg khvdangkiy lpylhdkwkh  
121 rselleliqi mivifgepp vferptvsas ypytatgpp ntsympgmps gisaypsgyp  
181 pnpsgypgcp yppagypypat tssqypsqqp vttvgpsrdg tisedtiras lisavsdklr  
241 wrmkeemdga qaelnalkrt eedlkkghqk leemvtrldq evaevdknie lkkkdeels  
301 salekmenqs enndidevii ptaplykqil nlyaeenaie dtifylgeal rrgvidldvf  
361 lkhvrllsrk qfqlralmqk arktagsdl y (SEQ ID NO:20)

Fig. 20B

Fig. 24



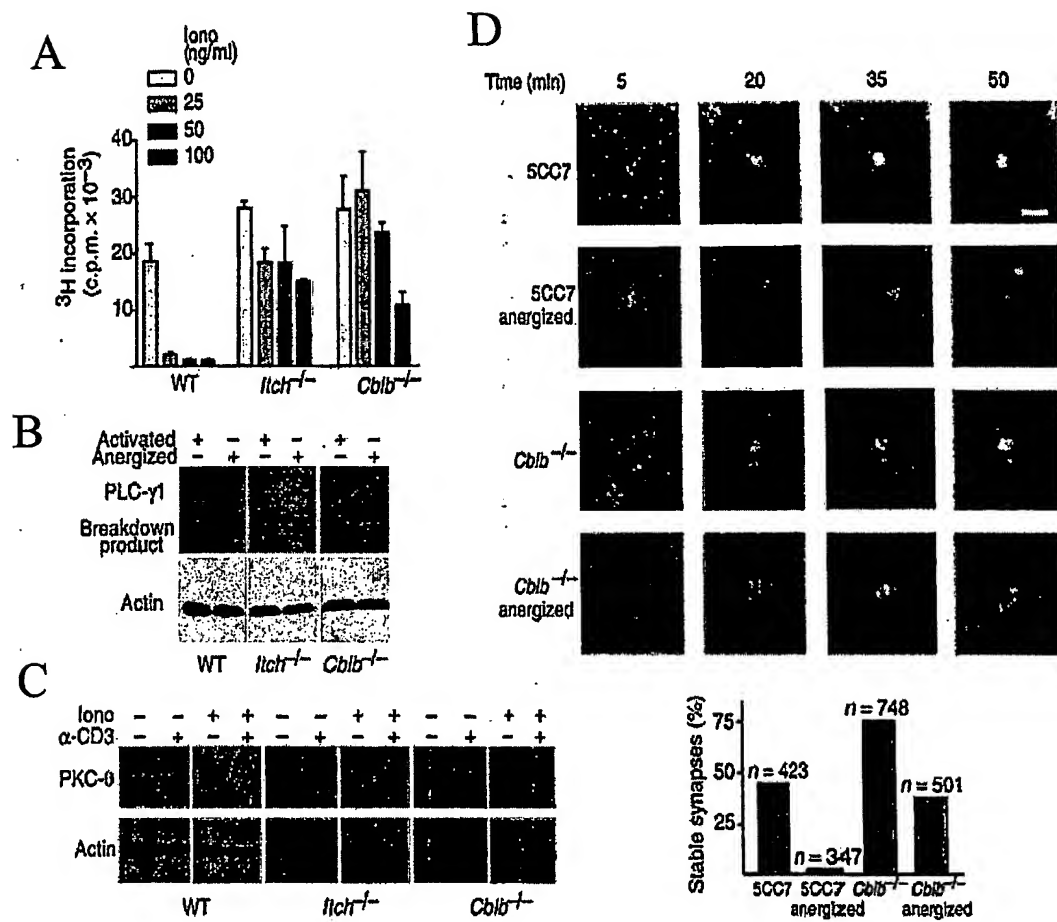


Fig. 25



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